Case Docket No. VANM145.001APC

Date JUN 05 2001

In re application of	:	Vannuffel, et al.
App. No.	:	09/509,234
Filed	:	September 25, 2000
For	:	GENETIC SEQUENCES, DIAGNOSTIC AND/OR QUANTIFICATION METHODS AND DEVICES FOR THE IDENTIFICATION OF STAPHYLOCOCCI STRAINS
Examiner	:	C. Myers
Art Unit	:	1655

I hereby certify that this correspondence and all marked attachments are being deposited with the United States Postal Service as first class mail in an envelope addressed to: Assistant Commissioner for Patents, Washington, D.C. 20231, on

May 25, 2001
(Date)

Daniel Hart, Reg. No. 40,637

**ASSISTANT COMMISSIONER FOR PATENTS**
WASHINGTON, D.C. 20231

Sir:

Transmitted herewith is an amendment in the above-identified application.

(X)   Substitute Sequence Listing in 44 pages.

(X)   Sequence Submission Statement.

(X)   Substitute Sequence Listing in computer readable form.

(X)   Copy of Notice to Comply.

(X)   Return prepaid postcard.

(X)   Please charge any additional fees, including any fees for additional extension of time, or credit overpayment to Deposit Account No. 11-1410.

Daniel Hart
Registration No. 40,637
Attorney of Record

S:\DOCS\DOH\DOH-5634.DOC:dmb
052501
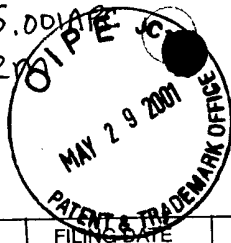
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UNITED STATES DEPARTMENT OF COMMERCE
United States Patent and Trademark Office

JUN 05 2001

Address: COMMISSIONER OF PATENTS AND TRADEMARKS
Washington, D.C. 20231

TECH CENTER 1600/2900

MAY 2 9 2001

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.
09/509,234	09/25/00	VANNUFFEL	P VANM145.001A

EXAMINER
MYERS, C

ART UNIT	PAPER NUMBER
1655	11

020995   HM12/0427
KNOBBE MARTENS OLSON & BEAR LLP
620 NEWPORT CENTER DRIVE
SIXTEENTH FLOOR
NEWPORT BEACH CA 92660

DATE MAILED:
04/27/01

Please find below and/or attached an Office communication concerning this application or proceeding.

Commissioner of Patents and Trademarks

DOCKETED ON: 5-4-01
BY: SN   VERIFIED BY:
ACTION: Notice to Comply
DUE DATE: May 27, 2001

FINAL DEADLINE: Oct. 27, 2001
ATTY: DOH / KRM
ATTORNEY VERIFICATION OF DUE DATE
AND FINAL DEADLINE:

Application No.: 09/509,234

NOTICE TO COMPLY WITH REQUIREMENTS FOR PATENT APPLICATIONS CONTAINING NUCLEOTIDE SEQUENCE AND/OR AMINO ACID SEQUENCE DISCLOSURES

The nucleotide and/or amino acid sequence disclosure contained in this application does not comply with the requirements for such a disclosure as set forth in 37 C.F.R. 1.821 - 1.825 for the following reason(s)

☒ 1. This application clearly fails to comply with the requirements of 37 C.F.R. 1.821-1.825. Applicant's
attention is directed to these regulations, published at 1114 OG 29, May 15, 1990 and at 55 FR 18230, May 1, 1990.

☐ 2. This application does not contain, as a separate part of the disclosure on paper copy, a "Sequence
Listing" as required by 37 C.F.R. 1.821(c).

☐ 3. A copy of the "Sequence Listing" in computer readable form has not been submitted as required by
37 C.F.R. 1.821(e).

☒ 4. A copy of the "Sequence Listing" in computer readable form has been submitted. However, the
content of the computer readable form does not comply with the requirements of 37 C.F.R. 1.822
and/or 1.823, as indicated on the attached copy of the marked -up "Raw Sequence Listing."

☐ 5. The computer readable form that has been filed with this application has been found to be damaged
and/or unreadable as indicated on the attached CRF Diskette Problem Report. A Substitute
computer readable form must be submitted as required by 37 C.F.R. 1.825(d).

☐ 6. The paper copy of the "Sequence Listing" is not the same as the computer readable from of the
"Sequence Listing" as required by 37 C.F.R. 1.821(e).

☐ 7. Other: _____

Applicant Must Provide:

☒ An initial or substitute computer readable form (CRF) copy of the "Sequence Listing".

☐ An initial or substitute paper copy of the "Sequence Listing", as well as an amendment directing its
entry into the specification.

☒ A statement that the content of the paper and computer readable copies are the same and, where
applicable, include no new matter, as required by 37 C.F.R. 1.821(e) or 1.821(f) or 1.821(g) or
1.825(b) or 1.825(d).

For questions regarding compliance to these requirements, please contact:

For Rules Interpretation, call (703) 308-4216
For CRF Submission Help, call (703) 308-4212
For PatentIn software help, call (703) 308-6856

PLEASE RETURN A COPY OF THIS NOTICE WITH YOUR RESPONSE

The communication filed on March 20, 2001 is not fully responsive to the Office

communication mailed November 20, 2000 for the reason(s) set forth on the attached Notice To

Comply With The Sequence Rules or CRF Diskette Problem Report. Applicant must comply

with the requirements of the sequence rules (37 CFR 1.821 - 1.825) before the application can be

examined under 35 U.S.C. §§ 131 and 132.

Since the above-mentioned reply appears to be *bona fide* attempt to comply with the

requirements of the sequence rules (37 CFR 1.821 - 1.825), applicant is given a TIME PERIOD

of **ONE (1) MONTH** from the mailing date of this communication within which to correct the

deficiency so as to comply with the sequence rules (37 CFR 1.821 - 1.825) in order to avoid

abandonment of the application under 37 CFR 1.821(g). EXTENSIONS OF THIS TIME

PERIOD MAY BE GRANTED UNDER 37 CFR 1.136(a).

Any inquiry concerning this communication or earlier communications from the examiner
should be directed to Carla Myers whose telephone number is (703) 308-2199. The examiner can
normally be reached on Monday-Thursday from 6:30 AM-5:00 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor,
W. Gary Jones, can be reached on (703)-308-1152. The fax number for the Technology Center is
(703)-305-3014 or (703)-305-4242.

Any inquiry of a general nature or relating to the status of this application should be
directed to the receptionist whose telephone number is (703) 308-0196.
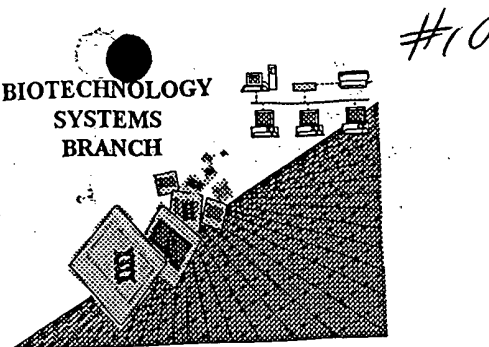
Carla Myers

April 23, 2001
　　　　　　　　　　　　　　　　　　CARLA J. MYERS
　　　　　　　　　　　　　　　　　　PRIMARY EXAMINER

RAW SEQUENCE LISTING
ERROR REPORT

BIOTECHNOLOGY
SYSTEMS
BRANCH

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) detected errors when processing the following computer readable form:

Application Serial Number: _O9/509,234_

Source: _1655_

Date Processed by STIC: _4/12/2001_

THE ATTACHED PRINTOUT EXPLAINS DETECTED ERRORS.
PLEASE FORWARD THIS INFORMATION TO THE APPLICANT BY EITHER:
1) **INCLUDING A COPY OF THIS PRINTOUT IN YOUR NEXT COMMUNICATION TO THE APPLICANT, WITH A NOTICE TO COMPLY or,**
2) **TELEPHONING APPLICANT AND FAXING A COPY OF THIS PRINTOUT, WITH A NOTICE TO COMPLY**
FOR CRF SUBMISSION QUESTIONS, PLEASE CONTACT MARK SPENCER, 703-308-4212.

FOR SEQUENCE RULES INTERPRETATION, PLEASE CONTACT ROBERT WAX, 703-308-4216.
PATENTIN 2.1 e-mail help: patin21help@uspto.gov or phone 703-306-4119 (R. Wax)
PATENTIN 3.0 e-mail help: patin3help@uspto.gov or phone 703-306-4119 (R. Wax)

TO REDUCE ERRORED SEQUENCE LISTINGS, PLEASE USE THE <u>CHECKER VERSION 3.0 PROGRAM</u>, ACCESSIBLE THROUGH THE U.S. PATENT AND TRADEMARK OFFICE WEBSITE. SEE BELOW:

Checker Version 3.0

The Checker Version 3.0 application is a state-of the-art Windows based software program employing a logical and intuitive user-interface to check whether a sequence listing is in compliance with format and content rules. Checker Version 3.0 works for sequence listings generated for the original version of 37 CFR §§1.821 – 1.825 effective October 1, 1990 (old rules) and the revised version (new rules) effective July 1, 1998 as well as World Intellectual Property Organization (WIPO) Standard ST.25.
Checker Version 3.0 replaces the previous DOS-based version of Checker, and is Y2K-compliant. Checker allows public users to check sequence listings in Computer Readable form (CRF) before submitting them to the United States Patent and Trademark Office (USPTO). Use of Checker prior to filing the sequence listing is expected to result in fewer errored sequence listings, thus saving time and money.

<u>Checker Version 3.0 can be down loaded from the USPTO website at the following address:</u>
http://www.uspto.gov/web/offices/pac/checker

1655
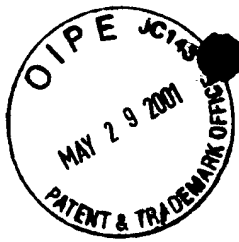
RAW SEQUENCE LISTING
PATENT APPLICATION: US/09/509,234

DATE: 04/12/2001
TIME: 15:54:04

Does Not Comply
Corrected Diskette Needed

Input Set : A:\PTO.txt
Output Set: N:\CRF3\04122001\I509234.raw

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 3 <110> APPLICANT: Vannuffel, Pascal
 4        Gala, Jean-Luc
 6 <120> TITLE OF INVENTION: GENETIC SEQUENCES, DIAGNOSTIC AND/OR QUANTIFICATION METHODS AND DEVICES
 7        FOR THE IDENTIFICATION OF STAPHYLOCOCCI STRAINS
 9 <130> FILE REFERENCE: VANM145.001A
10 <140> CURRENT APPLICATION NUMBER: 09/509,234
11 <141> CURRENT FILING DATE: 2000-09-25
13 <160> NUMBER OF SEQ ID NOS: 64
14 <170> SOFTWARE: PatentIn version 3.0
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OK

RECEIVED

APR 2 0 2001

TECH CENTER 1600/2900

ERRORED SEQUENCES

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2419 <210> SEQ ID NO: 64
2420 <211> LENGTH: 18
2421 <212> TYPE: DNA
2422 <213> ORGANISM: femX9
2424 <400> SEQUENCE: 64
2425 agctcgaaaa tagaacta                                      18
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E--> 2427 (20) delete at end of file
E--> 2430 (1)

see following pages for more error

RAW SEQUENCE LISTING
PATENT APPLICATION: US/09/509,234

Input Set : A:\Pto.amc
Output Set: N:\CRF3\04172001\I509234.raw

RECEIVED

DATE: 04/17/2001
TIME: 11:30:17 APR 2 0 2001

TECH CENTER 1600/2900

2

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   3 <110> APPLICANT: Vannuffel, Pascal
   4        Gala, Jean-Luc
   6 <120> TITLE OF INVENTION: GENETIC SEQUENCES, DIAGNOSTIC AND/OR QUANTIFICATION METHODS
AND DEVICES
   7        FOR THE IDENTIFICATION OF STAPHYLOCOCCI STRAINS
   9 <130> FILE REFERENCE: VANM145.001A
  10 <140> CURRENT APPLICATION NUMBER: 09/509,234
  11 <141> CURRENT FILING DATE: 2000-09-25
  13 <160> NUMBER OF SEQ ID NOS: 64
  14 <170> SOFTWARE: PatentIn version 3.0
  17 <210> SEQ ID NO: 1
  18 <211> LENGTH: 1328
  19 <212> TYPE: DNA
  20 <213> ORGANISM: Staphylococcus femA Consensus Sequence
  22 <220> FEATURE:
  23 <221> NAME/KEY: misc_feature
  24 <222> LOCATION: 1-1328
  25 <223> OTHER INFORMATION: n= any nucleotide
  27 <400> SEQUENCE: 1
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  30 ngannnnatg ncnnanagnc atttnacnca nannnnngnn nantangann tnaannttgc     120
  32 nnannnnnnn ganncncann tagtnggnat naanaanaan nataangang tnattgcngc     180
  34 ntgnntnntn acngcngtnc cngtnatgaa antnttnaan tanttttatt cnaanngngg     240
  36 nccngtnatn gattntnana annnaganct ngtncantnn ttctttaang anttnnnnaa     300
  38 ntatntnaaa nannannntn nnntatannt nnnnntngan ccntanntnn cntatcaata     360
  40 nnnnaatcat ganggngann tnnnngnnaa tgcnggnnan gattggntnt tngatnannt     420
  42 nnnnnnnntn ggntntnanc annnnggntt nnnnnannggn tttganccnn tnnnncaaat     480
  44 nngntnncan tcngtnntan atttannnnn naaaannncn nanganntnn tnaannnnat     540
  46 ggatngnntn ngnaanngna anacnaaaaa agtnnanaan aatggngtna aagtnnnntt     600
  48 nntnnnnnaa ganganntnc cnatnttnng ntcattnatg gangatacnn cnganncnaa     660
  50 ngnnttnnnn gatngngang annnnttnta ntanaanngn tnnnnnnatt nnaaagannn     720
  52 ngtnntngtn ccnntngcnt atatnnantt tgatgantan ntnnnngaan tnnannnnga     780
  54 nngnnannnn ntnantaaag annnnaanaa agcnntnaan ganatngana aangnccnga     840
  56 naanaaaaan gcnnnnaana annnnnnnaa nntnnaanan caantnnnng cnaannanca     900
  58 aaanntnnan gangnnannn nnntnnaann nnancatggn aangaattac cnatntcngc     960
  60 ngnntncttn ntnatnaatc cntntgaagt ngtntantan gcnggtggna cntcnaatnn    1020
  62 ntnnngncan ttngcnggna gntatgcnnt ncaatggnnn atgattaant atgcnntnna    1080
  64 ncatnnnatn nanngntana atttntatgg nnttagnggt nantttanng angangcnga    1140
  66 agatgnnggn gtnnttnaant tnaaaaangg ntnnnatgcn ganntnnntng antangttgg    1200
  68 nganttnntn aaaccnatna anaanccnnt ntannnnnnn tatannncan tnaaaaannt    1260
  70 nnannnnann nnnnnntann nannnnnnna nnnnannnnn nnnnnnatga aatttacaga    1320
  72 gttaannn                                                           1328
  75 <210> SEQ ID NO: 2
  76 <211> LENGTH: 35
  77 <212> TYPE: DNA
  78 <213> ORGANISM: primer
  80 <220> FEATURE:
  81 <221> NAME/KEY: misc_feature
```

(see p.3)

3

Input Set : A:\Pto.amc
Output Set: N:\CRF3\04172001\I509234.raw

name other locations, too OR show as (1)..(35)

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 82 <222> LOCATION: 2 X
 83 <223> OTHER INFORMATION: n= any nucleotide
 85 <400> SEQUENCE: 2                                    35
>86 anaatgannt ttacnaattt nacngcnana gantt
 89 <210> SEQ ID NO: 3
 90 <211> LENGTH: 20
 91 <212> TYPE: DNA
 92 <213> ORGANISM: femS1
 94 <400> SEQUENCE: 3                                    20
 95 taatgaagtt tacaaaattt
 98 <210> SEQ ID NO: 4
 99 <211> LENGTH: 20
100 <212> TYPE: DNA
101 <213> ORGANISM: femS2
103 <220> FEATURE:
104 <221> NAME/KEY: misc_feature
105 <222> LOCATION: 14
106 <223> OTHER INFORMATION: n= any nucleotide
108 <400> SEQUENCE: 4                                    20
109 taatgaagtt tacnaaattt
112 <210> SEQ ID NO: 5
113 <211> LENGTH: 25
114 <212> TYPE: DNA
115 <213> ORGANISM: primer
117 <220> FEATURE:
118 <221> NAME/KEY: misc_feature
119 <222> LOCATION: ← give locations
120 <223> OTHER INFORMATION: n= ? (define "n")
122 <400> SEQUENCE: 5                                    25
123 atgnnnnana gncatttnac ncana
126 <210> SEQ ID NO: 6
127 <211> LENGTH: 20
128 <212> TYPE: DNA
129 <213> ORGANISM: femU1
131 <400> SEQUENCE: 6                                    20
132 tgccatatag tcatttacgc
135 <210> SEQ ID NO: 7
136 <211> LENGTH: 37
137 <212> TYPE: DNA
138 <213> ORGANISM: primer
140 <220> FEATURE:
141 <221> NAME/KEY: misc_feature
142 <222> LOCATION: ← give locations
143 <223> OTHER INFORMATION: n= any nucleotide
145 <400> SEQUENCE: 7                                    37
146 tagtnggnat naannaanaan nataangang tnattgc
149 <210> SEQ ID NO: 8
150 <211> LENGTH: 35
151 <212> TYPE: DNA
```

see pp 4-6, too

RAW SEQUENCE LISTING
PATENT APPLICATION: US/09/509,234

DATE: 04/17/2001
TIME: 11:30:17

Input Set : A:\Pto.amc
Output Set: N:\CRF3\04172001\I509234.raw

```
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     154 <220> FEATURE:
     155 <221> NAME/KEY: misc_feature
     156 <222> LOCATION: ← give locations
     157 <223> OTHER INFORMATION: n= any nucleotide
     159 <400> SEQUENCE: 8
W--> 160 gtnccngtna tgaaantntt naantanttt tattc                    35
     163 <210> SEQ ID NO: 9
     164 <211> LENGTH: 18
     165 <212> TYPE: DNA
     166 <213> ORGANISM: primer
     168 <220> FEATURE:
     169 <221> NAME/KEY: misc_feature
     170 <222> LOCATION: ← give locations
     171 <223> OTHER INFORMATION: n= any nucleotide
     173 <400> SEQUENCE: 9
W--> 174 aatgcnggnn angattgg                                       18
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     178 <211> LENGTH: 43
     179 <212> TYPE: DNA
     180 <213> ORGANISM: primer
     182 <220> FEATURE:
     183 <221> NAME/KEY: misc_feature
     184 <222> LOCATION: ← give locations
     185 <223> OTHER INFORMATION: n= any nucleotide
     187 <400> SEQUENCE: 10
W--> 188 gnaanngnaa nacnaaaaaa gtnnanaana atggngtnaa agt            43
     191 <210> SEQ ID NO: 11
     192 <211> LENGTH: 18
     193 <212> TYPE: DNA
     194 <213> ORGANISM: fsq1S
     196 <400> SEQUENCE: 11                                        18
     197 aaaaagttca aaaaatgg
     200 <210> SEQ ID NO: 12
     201 <211> LENGTH: 18
     202 <212> TYPE: DNA
     203 <213> ORGANISM: fsq2S
     205 <400> SEQUENCE: 12                                        18
     206 aaaaagtaca aaaaatgg
     209 <210> SEQ ID NO: 13
     210 <211> LENGTH: 40
     211 <212> TYPE: DNA
     212 <213> ORGANISM: primer
     214 <220> FEATURE:
     215 <221> NAME/KEY: misc_feature
     216 <222> LOCATION: ← give locations
     217 <223> OTHER INFORMATION: n= any nucleotide
     219 <400> SEQUENCE: 13                                        40
W--> 220 aagangannt nccnatnttn ngntcattna tggangatac
```

Input Set : **A:\Pto.amc**
Output Set: **N:\CRF3\04172001\I509234.raw**

```
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      224 <211> LENGTH: 20
      225 <212> TYPE: DNA
      226 <213> ORGANISM: primer
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      229 <221> NAME/KEY: misc_feature
   √  230 <222> LOCATION: ← give locations
      231 <223> OTHER INFORMATION: n= any nucleotide
      233 <400> SEQUENCE: 14                                        20
W--> 234 tatatnnant ttgatganta
      237 <210> SEQ ID NO: 15
      238 <211> LENGTH: 32
      239 <212> TYPE: DNA
      240 <213> ORGANISM: primer
      242 <220> FEATURE:
      243 <221> NAME/KEY: misc_feature
   √  244 <222> LOCATION: ← give locations
      245 <223> OTHER INFORMATION: n= any nucleotide
      247 <400> SEQUENCE: 15                                        32
W--> 248 aanganatng anaaangncc nganaanaaa aa
      251 <210> SEQ ID NO: 16
      252 <211> LENGTH: 18
      253 <212> TYPE: DNA
      254 <213> ORGANISM: fsq3S
      256 <400> SEQUENCE: 16                                        18
      257 aaagatattg aaaaacga
      260 <210> SEQ ID NO: 17
      261 <211> LENGTH: 20
      262 <212> TYPE: DNA
      263 <213> ORGANISM: fsq4S
      265 <400> SEQUENCE: 17                                        20
      266 aaagatattg aaaagagacc
      269 <210> SEQ ID NO: 18
      270 <211> LENGTH: 18
      271 <212> TYPE: DNA
      272 <213> ORGANISM: fsq5S
      274 <400> SEQUENCE: 18                                        18
      275 aaagatatcg agaaagac
      278 <210> SEQ ID NO: 19
      279 <211> LENGTH: 18
      280 <212> TYPE: DNA
      281 <213> ORGANISM: fsq6S
      283 <400> SEQUENCE: 19                                        18
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      289 <212> TYPE: DNA
      290 <213> ORGANISM: primer
      292 <220> FEATURE:
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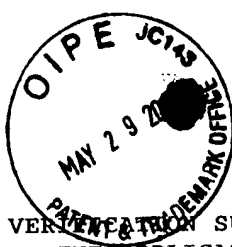
RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/509,234

DATE: 04/17/2001
TIME: 11:30:17

Input Set : A:\Pto.amc
Output Set: N:\CRF3\04172001\I509234.raw

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   V   294 <222> LOCATION: ←give locations
       295 <223> OTHER INFORMATION: n= any nucleotide
       297 <400> SEQUENCE: 20
W-->   298 ancatggnaa ngaattaccn at                              22
       301 <210> SEQ ID NO: 21
       302 <211> LENGTH: 19
       303 <212> TYPE: DNA
       304 <213> ORGANISM: fem1
       306 <400> SEQUENCE: 21
       307 gaacatggta atgaattac                                  19
       310 <210> SEQ ID NO: 22
       311 <211> LENGTH: 32
       312 <212> TYPE: DNA
       313 <213> ORGANISM: primer
       315 <220> FEATURE:
      /316 <221> NAME/KEY: misc_feature
   V   317 <222> LOCATION: ←give locations
       318 <223> OTHER INFORMATION: n= any nucleotide
       320 <400> SEQUENCE: 22
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       326 <212> TYPE: DNA
       327 <213> ORGANISM: primer
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       330 <221> NAME/KEY: misc_feature
   V   331 <222> LOCATION: ←give locations
       332 <223> OTHER INFORMATION: n= any nucleotide
       334 <400> SEQUENCE: 23
W-->   335 agntatgcnn tncaatggnn natgattaan tatgc                35
       338 <210> SEQ ID NO: 24
       339 <211> LENGTH: 44
       340 <212> TYPE: DNA
       341 <213> ORGANISM: primer
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       344 <221> NAME/KEY: misc_feature
   V   345 <222> LOCATION: ←give locations
       346 <223> OTHER INFORMATION: n= any nucleotide
       348 <400> SEQUENCE: 24
W-->   349 tttanngang angcngaaga tgnnggngtn ntnaanttna aaaa       44
       352 <210> SEQ ID NO: 25
       353 <211> LENGTH: 20
       354 <212> TYPE: DNA
       355 <213> ORGANISM: fem3bio
       357 <400> SEQUENCE: 25
       358 tttactgaag atgctgaaga                                 20
       361 <210> SEQ ID NO: 26
       362 <211> LENGTH: 20
```

Please Note:
Use of n and/or Xaa have been detected in the Sequence Listing. Please review the
Sequence Listing to ensure that a corresponding explanation is presented in the <220> to
<223> fields of each sequence which presents at least one n or Xaa.

Input Set : A:\Pto.amc
Output Set: N:\CRF3\04172001\I509234.raw

L:10 M:283 W: Missing Blank Line separator, <140> field identifier
L:11 M:271 C: Current Filing Date differs, Replaced Current Filing Date
L:28 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1
L:30 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1
L:32 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1
L:34 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1
L:36 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1
L:38 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1
L:40 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1
L:42 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1
L:44 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1
L:46 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1
L:48 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1
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L:60 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1
L:62 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1
L:64 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1
L:66 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1
L:68 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1
L:70 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1
L:72 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1
L:86 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2
L:109 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:4
L:123 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:5
L:146 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:7
L:160 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:8
L:174 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:9
L:188 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:10
L:220 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:13
L:234 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:14
L:248 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:15
L:298 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:20
L:321 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:22
L:335 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:23
L:349 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:24
L:372 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:26